

## WEST Search History

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DATE: Wednesday, September 08, 2004

<u>Hide?</u>	<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>
<i>DB=PGPB,USPT,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>			
<input type="checkbox"/>	L2	L1 and capric and lauric and linoleic	4
<input type="checkbox"/>	L1	momordica (charantiqa or charantia)	2373

END OF SEARCH HISTORY

Specific Compounds  
A02WNK A02WNT A02WNM

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0121U; 0122U ; 0206U ; 0954U ; 1147U ; 1226U

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2001-043583

First Hit**End of Result Set**

L2: Entry 4 of 4

File: DWPI

Nov 27, 2002

DERWENT-ACC-NO: 2001-147268

DERWENT-WEEK: 200305

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**TITLE:** New oil extracted from the seeds of Momordica charantia L., useful in treatment of inflammation, arthritis, vasculodilation and wounds.

**INVENTOR:** KHANNA, P**PATENT-ASSIGNEE:**

ASSIGNEE	CODE
KHANNA P	KHANI

**PRIORITY-DATA:** 1999WO-IN00030 (July 15, 1999), 2002ZA-0000111 (January 7, 2002)

<b>Search Selected</b>	<b>Search All</b>	<b>Clear</b>
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**PATENT-FAMILY:**

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> <u>ZA 200200111 A</u>	November 27, 2002		046	A61K000/00
<input type="checkbox"/> <u>WO 200105416 A1</u>	January 25, 2001	E	034	A61K035/78
<input type="checkbox"/> <u>AU 200012936 A</u>	February 5, 2001		000	A61K035/78
<input type="checkbox"/> <u>KR 2002025196 A</u>	April 3, 2002		000	A61K031/201
<input type="checkbox"/> <u>CN 1361699 A</u>	July 31, 2002		000	A61K035/78

**DESIGNATED-STATES:** AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZA ZW AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ UG ZW

**APPLICATION-DATA:**

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
ZA 200200111A	January 7, 2002	2002ZA-0000111	
WO 200105416A1	July 15, 1999	1999WO-IN00030	
AU 200012936A	July 15, 1999	1999WO-IN00030	
AU 200012936A	July 15, 1999	2000AU-0012936	
AU 200012936A		WO 200105416	Based on
KR2002025196A	July 15, 1999	1999WO-IN00030	
KR2002025196A	January 15, 2002	2002KR-0700616	
CN 1361699A	July 15, 1999	1999CN-0816804	
CN 1361699A	July 15, 1999	1999WO-IN00030	

INT-CL (IPC): A61 K 0/00; A61 K 31/201; A61 K 35/78

ABSTRACTED-PUB-NO: WO 200105416A  
BASIC-ABSTRACT:

NOVELTY - Oil extracted from the seeds of Momordica charantia L. is useful as an anti-inflammatory, anti-arthritic, vasculodilatory and wound healing agent.

DETAILED DESCRIPTION - Oil extracted from the seeds of Momordica charantia L. is useful as an anti-inflammatory, anti-arthritic, vasculodilatory and wound healing agent. The oil comprises capric acid (0.7-1.2% by weight), lauric acid (0.6-1% by weight), palmitic acid (4.2-5.0% by weight), stearic acid (59-62% by weight), oleic acid (13-15% by weight), archidic acid (3-5% by weight), linoleic acid (8-10% by weight) and other undetected minor acids (6-8% by weight).

An INDEPENDENT CLAIM is included for an oil composition comprises oil extracted from the seeds of Momordica charantia L. (70-80% by weight), one or more vegetable oils (15-25% by weight), fragrance oil (3% by weight), essential oil (1% by weight) and at least one perfume component (2% by weight).

ACTIVITY - Anti-inflammatory; anti-arthritic; vasculodilatory; vulnerary.

MECHANISM OF ACTION - None given.

USE - The oil and the composition are useful in treatment of inflammation, arthritis, vasculodilation and wounds.

CHOSEN-DRAWING: Dwg.0/5

TITLE-TERMS: NEW OIL EXTRACT SEED MOMORDICA USEFUL TREAT INFLAMMATION ARTHRITIS WOUND

DERWENT-CLASS: B04 D21

CPI-CODES: B04-A09F; B04-A10G; B04-B01C1; B10-C04E; B12-M02B; B12-M11C; B14-C03; B14-C09; B14-N17B;

CHEMICAL-CODES:

Chemical Indexing M2 \*01\*

Fragmentation Code

J0 J011 J1 J171 M220 M223 M231 M262 M281 M320  
M416 M431 M620 M782 M904 M905 M910 P420 P421 P528  
P942

Specific Compounds

01226K 01226T 01226M

Registry Numbers

1226U

Chemical Indexing M2 \*02\*

Fragmentation Code

J0 J011 J1 J171 M225 M231 M262 M281 M320 M416  
M431 M620 M782 M904 M905 M910 P420 P421 P528 P942

Specific Compounds

01147K 01147T 01147M

Registry Numbers

1147U

## Chemical Indexing M2 \*03\*

## Fragmentation Code

J0 J011 J1 J171 M225 M231 M262 M281 M320 M416  
M431 M620 M782 M904 M905 M910 P420 P421 P528 P942

## Specific Compounds

00121K 00121T 00121M 17408K 17408T 17408M

## Registry Numbers

0121U

## Chemical Indexing M2 \*04\*

## Fragmentation Code

J0 J011 J1 J171 M225 M231 M262 M281 M320 M416  
M431 M620 M782 M904 M905 M910 P420 P421 P528 P942

## Specific Compounds

00122K 00122T 00122M 04758K 04758T 04758M

## Registry Numbers

0122U

## Chemical Indexing M2 \*05\*

## Fragmentation Code

H7 H721 J0 J011 J1 J171 M225 M231 M262 M281  
M320 M416 M431 M782 M904 M905 M910 P420 P421 P528  
P942

## Specific Compounds

00954K 00954T 00954M 14104K 14104T 14104M

## Registry Numbers

0954U

## Chemical Indexing M2 \*06\*

## Fragmentation Code

J0 J011 J1 J171 M226 M231 M262 M281 M320 M416  
M431 M620 M782 M904 M905 P420 P421 P528 P942

## Specific Compounds

03769K 03769T 03769M

## Chemical Indexing M2 \*07\*

## Fragmentation Code

H7 H722 J0 J011 J1 J171 M225 M231 M262 M281  
M320 M416 M431 M782 M904 M905 M910 P420 P421 P528  
P942

## Specific Compounds

00206K 00206T 00206M 14105K 14105T 14105M

## Registry Numbers

0206U

## Chemical Indexing M1 \*08\*

## Fragmentation Code

M423 M431 M782 M905 P420 P421 P528 P942

## Specific Compounds

A01IKK A01IKT A01IKM

## Chemical Indexing M1 \*09\*

## Fragmentation Code

M423 M431 M782 M905 P420 P421 P528 P942

## Specific Compounds

A04V6K A04V6T A04V6M

## Chemical Indexing M1 \*10\*

## Fragmentation Code

M423 M431 M782 M905 P420 P421 P528 P942

# Ethnomedical Information on Bitter Melon (*Momordica charantia*)

## Leaf / Plant / Vine

Plant Part / Location	Documented Ethnomedical Use	Type Extract / Route	Used By	Ref #
Leaf Africa	Used for colic.	Not Stated / Oral	Human Adult	ZZ1049
Vine Bahamas	Used as an emmenagogue and to induce abortion.	Hot H2O Ext / Oral	Human Female	T05032
Entire Plant Belize	Used for skin conditions, infections, infestations of ticks and chiggers and stubborn sores and wounds.	Decoction / External	Human Adult	ZZ1019
Entire Plant Belize	Used to treat diabetes. Used as a blood and organ cleanser.	Not stated / Oral	Human Adult	ZZ1019
Leaf + Vine Belize	Used to prevent intestinal parasites, amoebas, anemia, tiredness, constipation, delayed menses, skin problems and painful periods.	Decoction / Oral	Human Adult	ZZ1019
Leaf Belize	Raw leaves chewed for sore throat and mouth sores.	Raw / Oral	Human Adult	ZZ1019
Leaf Belize	Used for diabetes.	Hot H2O Ext / Oral	Human Adult	T05011
Vine Bimini	Used for diabetes, fevers and as an abortifacient.	Hot H2O Ext / Oral	Human Adult	T00359
Meristem Brazil	Used as a vermifuge.	Not Stated / External	Human Adult	K18765
Entire Plant Brazil	Used against colic and fevers.	Tincture / Oral	Human Adult	A00499
Entire Plant Brazil	Used as a vermifuge and febrifuge.	Decoction / Oral	Human Adult	T15975
Entire Plant Brazil	Used for eczema. Used for fevers and as a substitute for quinine. Used for hemorrhoids.	Not stated / External Tincture / Not stated Infusion / Not stated	Human Adult	ZZ1002
Leaf Brazil	Used for leucorrhea, colic, worms, rheumatism and menstrual problems. Used for scabies.	Not Stated / Oral Juice / External	Human Adult	ZZ1002
Leaf Brazil	Used as a malaria remedy and for the treatment of hepatitis.	Infusion / Oral	Human Adult	L15570
Leaf Brazil	Used to treat rheumatism. Cataplasma of the fresh leaves is applied to treat leprosy.	H2O Ext / Oral Cataplasma / External	Human Adult	A00499
Leaf Brazil	Used for fever, itch and sores.	Decoction / Oral	Human Adult	L04137

Plant Part / Location	Documented Ethnomedical Use	Type Extract / Route	Used By	Ref #
Leaf Nicaragua	Used for skin rashes and aches and pains. Used as a tonic. Used for anemia, colds, fever, cough, malaria, hypertension, infections, diabetes, and for childbirth	Decoction / External Decoction / Oral	Human Adult Human Adult	K27070
Leaf + Stem Nicaragua	Used for skin rashes and sores. Used for aches and pains, childbirth and pregnancy, for fever, hypertension, infections, diabetes, respiratory and pulmonary disorders, malaria and as a tonic for anemia.	Decoction / External Decoction / Oral	Human Adult Human Adult	L16047
Leaf Nigeria	Eaten as a pot herb.	Leaves / Oral	Human Adult	T06510
Leaf Nigeria	Used to treat breast cancer.	Not Stated	Human Adult	T07722
Entire Plant Nigeria	Used for malignant ulcers.	Plant / External	Human Adult	T07722
Leaf Nigeria	Used to treat diarrhea. 15-20 leaves crushed into 2-3 glasses water. Filtrate taken orally with table salt to taste.	H2O Ext / Oral	Human Adult	K08933
Aerial Parts Panama	Used as an antihypertensive.	Infusion / Oral	Human Adult	L18181
Leaf Panama	Used as an antipyretic, choleric and antidiabetic.	Hot H2O Ext / Oral	Human Adult	T01287
Leaf Peru	Used for diabetes.	H2O Ext / Oral	Human Adult	ZZ1008
Leaf Peru	Used for inflammation.	Not Stated / Oral	Human Adult	ZZ1084
Leaf Peru	Used to treat measles. Used to treat sores. Used against malaria.	Decoction / Oral Decoction / External Infusion / Oral	Human Adult Human Adult Human Adult	L04137
Entire Plant Philippines	Used as a bath for newborns. Believed to remove disease-causing elements from the skin. Used for coughs in infants.	Decoction / External Benzene Ext / Oral	Human Child Human Child	T10116
Leaf Philippines	Used as an antidiabetic.	Leaves / Oral	Human Adult	J17272
Leaf Philippines	Used for diabetes.	Decoction / Oral	Human Adult	J16266
Vine Philippines	Used as a powerful emmenagogue.	Hot H2O Ext / Oral	Human Female	A04179
Vine Puerto Rico	Used for diabetes.	Hot H2O Ext / Oral	Human Adult	A00637
Vine Puerto Rico	Used as an antidiabetic.	Hot H2O Ext / Oral	Human Adult	A04179

Compound	Chemical type	Plant Part	Plant Origin	Quantity	Ref. #
Lauric acid	Lipid	Fruit Seed oil Entire plant	P.-New Guinea India Bangladesh	Not stated Not stated Not stated	M27944 M19217 L13425
Lectin inhibitor	Proteid	Seed	India	Not stated	N04644
Lectin	Proteid	Seed Seed	India China	Not stated Not stated	N04644 T08662
Leucine	Proteid	Seed	Nepal	0.00416%	T06653
Leucine, iso:	Proteid	Seed	Nepal	0.00384%	T06653
Linoleic acid	Lipid	Entire plant Seed oil Fruit Cotyledons Cotyledons	Bangladesh India P.-New Guinea Not stated Not stated	Not stated Not stated Not stated 07.22% 10.39%	L13425 M19217 M27944 T06928 T06928
Linolenic acid	Lipid	Seed oil Fruit Cotyledons	India P.-New Guinea Not stated	Not stated Not stated 09.96%	M19217 M27944 T06928
Lutein	Carotenoid	Pericarp	USA-RI	Not stated	K03650
Lycopene	Carotenoid	Seed Fruit Pericarp	Taiwan Taiwan USA	Not stated 0.02310% Not stated	M12169 T06649 K03650
Lysine	Proteid	Seed	Nepal	0.0149%	T06653
Magnesium	Inorganic	Fruit	Not stated	195-3,800 ppm	ZZ1047
Manganese	Inorganic	Fruit	Not stated	10 ppm	ZZ1047
Map-30	Proteid	Seed	China	Not stated	M27144
Menthol, (-):	Monoterpene	Seed essential oil	Japan	Not stated	M13369
Momorcharaside A	Triterpene	Seed	China	Not stated	M27078
Momorcharaside B	Triterpene	Seed	China	Not stated	M27078

Compound	Chemical type	Plant Part	Plant Origin	Quantity	Ref #
Myristic acid	Lipid	Fruit Seed oil Entire plant	P.-New Guinea India Bangladesh	Not stated Not stated Not stated	M27944 M19217 L13425
Nerolidol	Sesquiterpene	Seed essential oil	Japan	Not stated	M13369
Niacin	Inorganic	Fruit Leaf		Not stated Not stated	ZZ1047
Nitrogen	Inorganic	Fruit		Not stated	ZZ1047
Oleanolic acid	Triterpene	Part Not Specified	Egypt	Not stated	J12384
Oleic acid	Lipid	Entire plant Fruit Cotyledons	Bangladesh P.-New Guinea Not stated	Not stated Not stated 15.58%	L13425 M27944 T06928
Ornithine	Proteid	Seed	Nepal	0.00632%	T06653
Oxalate		Fruit	Not stated	185-1,444 ppm	ZZ1047
Oxalic-acid		Fruit	Not stated	5 ppm	ZZ1047
P-insulin	Proteid	Fruit Seed	India India	Not stated Not stated	M21799 M21799
Palmitic acid	Lipid	Entire plant Fruit Seed oil Cotyledons Cotyledons	Bangladesh P.-New Guinea India Not stated Not stated	Not stated Not stated 02.71% 51.95%	L13425 M27944 M19217 T06928 T06928
Palmitoleic acid	Lipid	Fruit	P.-New Guinea	Not stated	M27944
Pectin	Carbohydrate	Fruit	Not stated	Not stated	ZZ1047
Pentadecan-1-ol	Alkanol c5 or more	Seed essential oil	Japan	Not stated	M13369
Peptide mc-6	Proteid	Fruit	USA	Not stated	L18395
Peptide mc6.1	Proteid	Fruit	USA	Not stated	L18395